

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VO081420\
 Data File : VX017900.D
 Acq On : 14 Aug 2020 15:18
 Operator : JC/SP
 Sample : L3697-05
 Misc : 25.0mL/MSVOA X/WATER
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 BG0N2

Quant Time: Aug 17 03:32:41 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\SOMXTR080720WMA.M
 Quant Title : TRACE VOA SOM01.0
 QLast Update : Mon Aug 17 01:26:51 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	6.83	114	312201	5.00	ug/L	0.00
28) Chlorobenzene-d5	10.10	117	285034	5.00	ug/L	0.00
61) 1,4-Dichlorobenzene-d4	12.06	152	145522	5.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.39	65	95209	4.41	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	88.20%
7) Chloroethane-d5	1.69	69	78135	4.56	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	91.20%
11) 1,1-Dichloroethene-d2	2.34	63	131240	2.95	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	59.00%#
20) 2-Butanone-d5	4.53	46	300123	52.38	ug/L	0.00
Spiked Amount	50.000	Range	40 - 130	Recovery	=	104.76%
24) Chloroform-d	5.14	84	200318	4.57	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	91.40%
26) 1,2-Dichloroethane-d4	6.04	65	115740	4.81	ug/L	0.01
Spiked Amount	5.000	Range	70 - 130	Recovery	=	96.20%
32) Benzene-d6	6.05	84	366390	4.68	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	93.60%
36) 1,2-Dichloropropane-d6	7.37	67	116922	4.83	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	96.60%
41) Toluene-d8	8.70	98	324987	4.36	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	87.20%
45) trans-1,3-Dichloropropene-	8.99	79	52159	4.98	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	99.60%
48) 2-Hexanone-d5	9.43	63	247407	56.83	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	113.66%
59) 1,1,2,2-Tetrachloroethane-	11.23	84	93180	5.07	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	101.40%
65) 1,2-Dichlorobenzene-d4	12.36	152	144474	5.16	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	103.20%

Target Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
5) Vinyl chloride	1.39	62	42936	1.460	ug/L	92
8) Chloroethane	1.72	64	168178	10.225	ug/L	99
13) Acetone	2.42	43	93790	22.406	ug/L	100
14) Carbon disulfide	2.55	76	7549	0.088	ug/L #	95
17) Methyl tert-butyl Ether	3.17	73	21528	0.336	ug/L #	1
18) trans-1,2-Dichloroethene	3.14	96	3996	0.147	ug/L	90
19) 1,1-Dichloroethane	3.67	63	40044	0.827	ug/L	97
21) 2-Butanone	4.64	43	35468	4.906	ug/L	96
22) cis-1,2-Dichloroethene	4.57	96	309917	10.877	ug/L #	99
25) Chloroform	5.18	83	15652	0.300	ug/L	97
30) Cyclohexane	5.56	56	23312	0.575	ug/L	97
33) Benzene	6.12	78	18696789	185.285	ug/L	100
35) Methylcyclohexane	7.43	83	17085	0.413	ug/L	94
40) 4-Methyl-2-pentanone	8.63	43	47681	2.886	ug/L	98
42) Toluene	8.76	91	18321799	167.260	ug/L #	73
53) Chlorobenzene	10.12	112	3216979	45.119	ug/L	98
54) Ethylbenzene	10.24	91	4580239	38.314	ug/L	100

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QLast Update : Mon Aug 17 01:26:51 2020
Response via : Initial Calibration

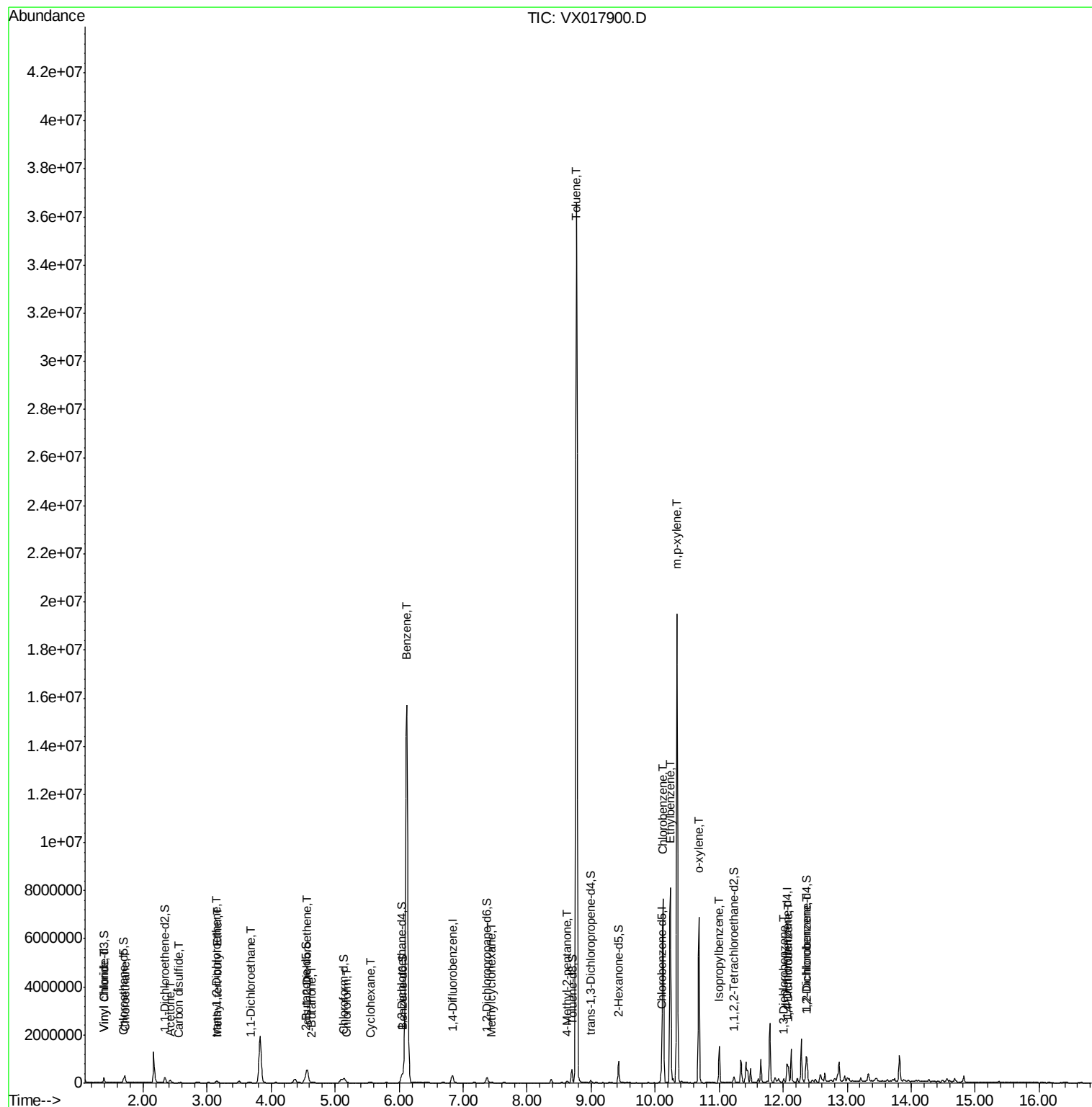
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
55) m,p-xylene	10.34	106	4514247	98.899	ug/L	96
56) o-xylene	10.68	106	1451986	32.809	ug/L	98
58) Isopropylbenzene	11.01	105	792472	6.690	ug/L	100
63) 1,3-Dichlorobenzene	12.01	146	29995	0.529	ug/L	92
64) 1,4-Dichlorobenzene	12.09	146	185865	3.297	ug/L	97
66) 1,2-Dichlorobenzene	12.38	146	215501	4.094	ug/L	96

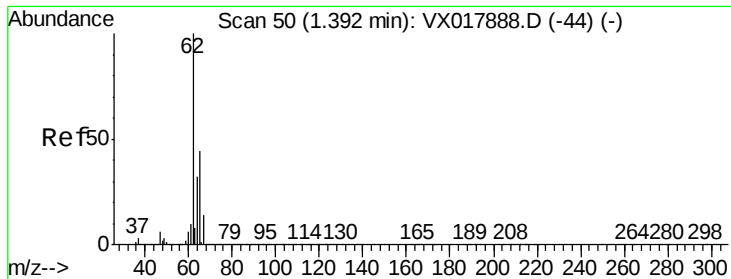
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#5

Vinyl chloride

Concen: 1.460 ug/L

RT: 1.39 min Scan# 50

Delta R.T. -0.00 min

Lab File: VX017900.D

Acq: 14 Aug 2020 15:18

Instrument :

MSVOA_X

ClientSampled :

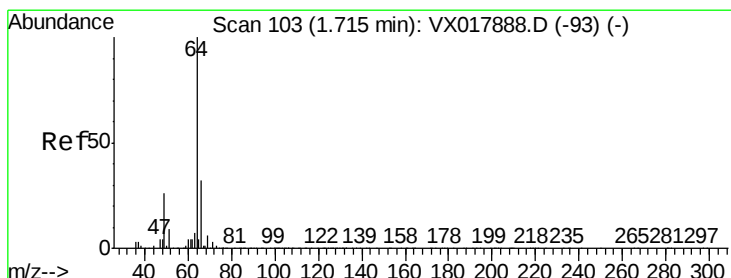
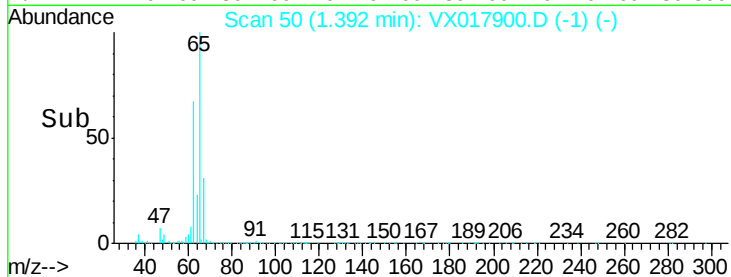
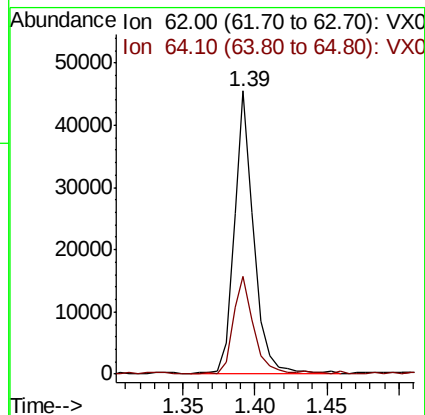
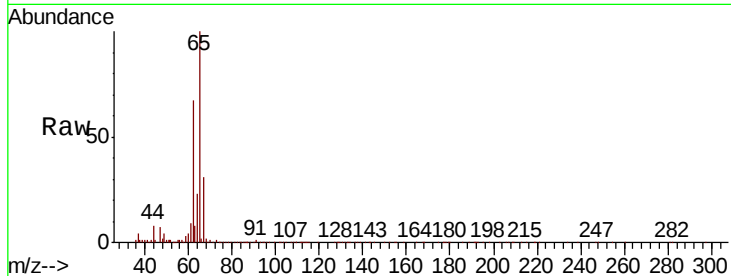
BG0N2

Tot Ion: 62 Resp: 42936

Ion Ratio Lower Upper

62 100

64 34.7 21.3 39.6



#8

Chloroethane

Concen: 10.225 ug/L

RT: 1.72 min Scan# 103

Delta R.T. 0.00 min

Lab File: VX017900.D

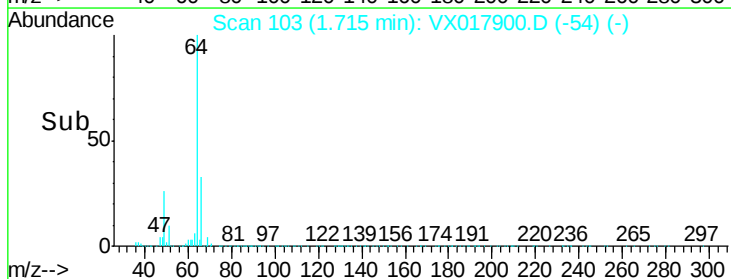
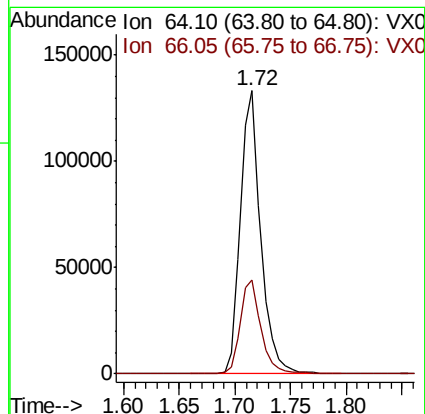
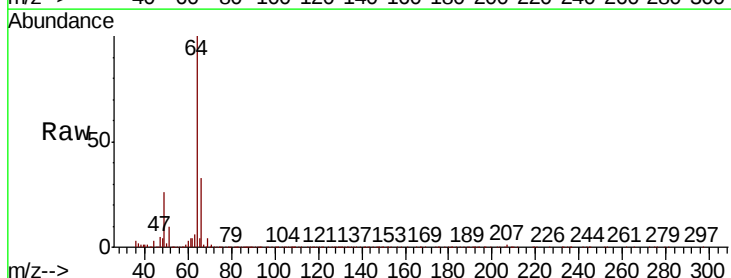
Acq: 14 Aug 2020 15:18

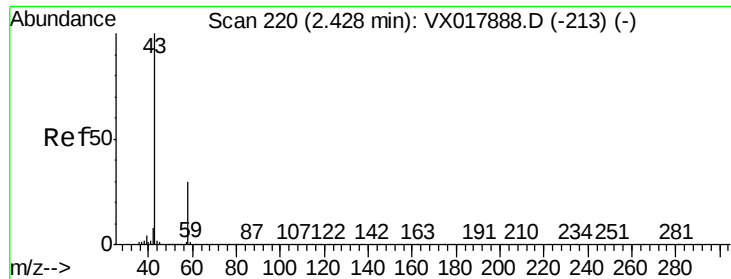
Tgt Ion: 64 Resp: 168178

Ion Ratio Lower Upper

64 100

66 33.0 22.6 42.0





#13

Acetone

Concen: 22.406 ug/L

RT: 2.42 min Scan# 219

Delta R.T. -0.01 min

Lab File: VX017900.D

Acq: 14 Aug 2020 15:18

Instrument :

MSVOA_X

ClientSampleId :

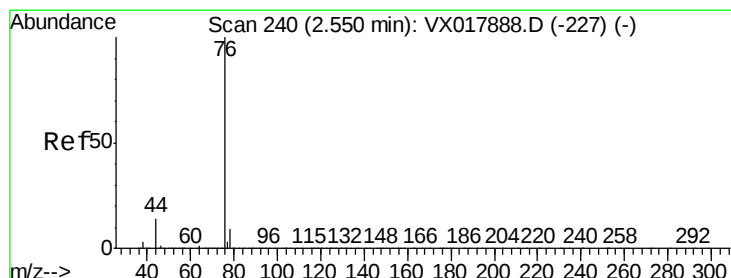
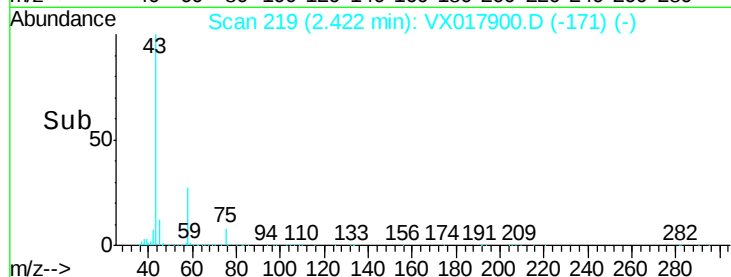
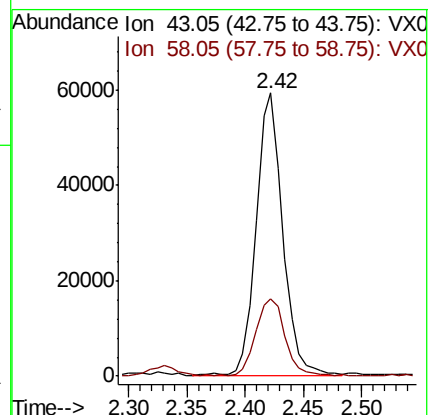
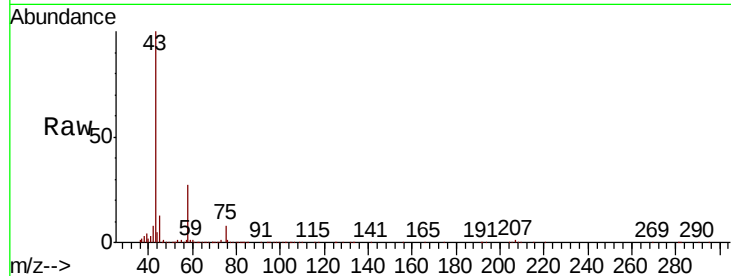
BG0N2

Tot Ion: 43 Resp: 93790

Ion Ratio Lower Upper

43 100

58 30.4 0.0 60.8



#14

Carbon disulfide

Concen: 0.088 ug/L

RT: 2.55 min Scan# 240

Delta R.T. 0.00 min

Lab File: VX017900.D

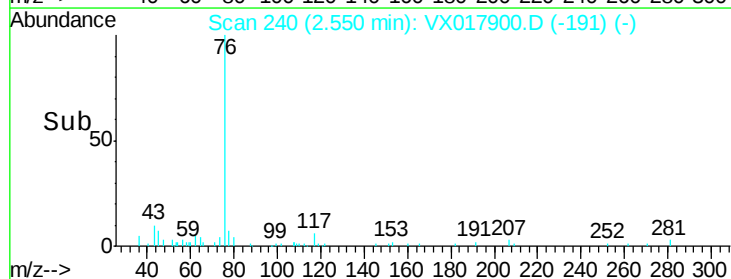
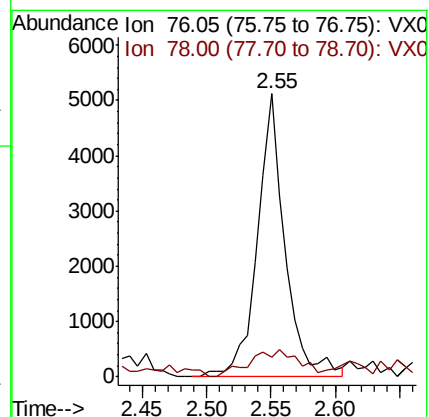
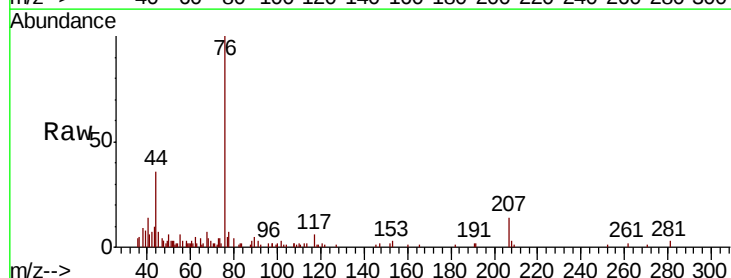
Acq: 14 Aug 2020 15:18

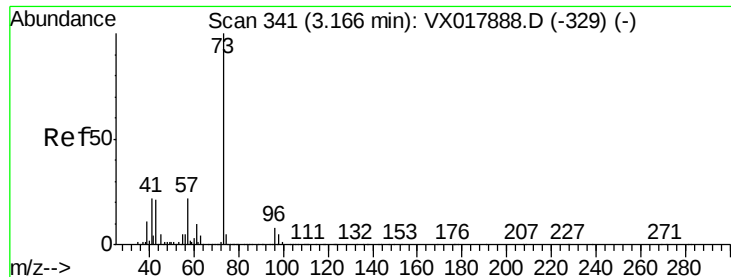
Tgt Ion: 76 Resp: 7549

Ion Ratio Lower Upper

76 100

78 7.0 7.0 10.4#

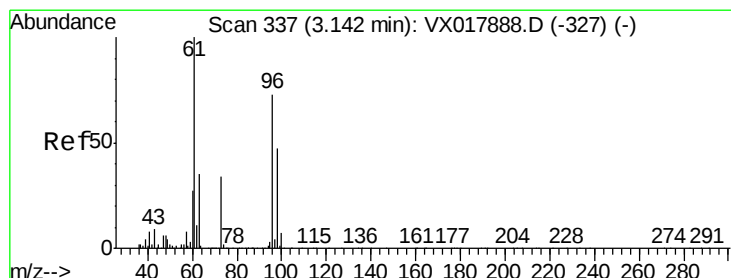
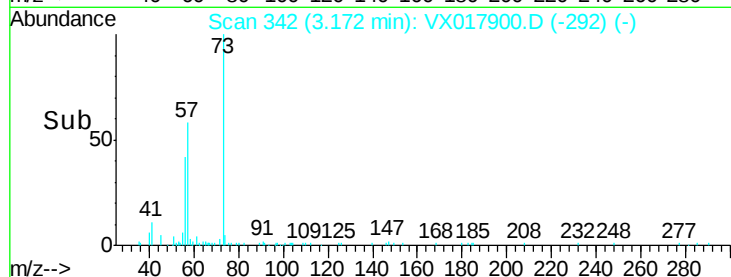
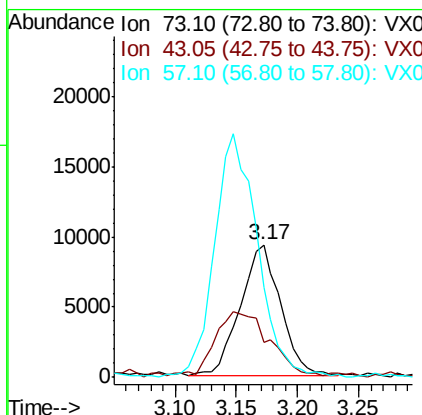
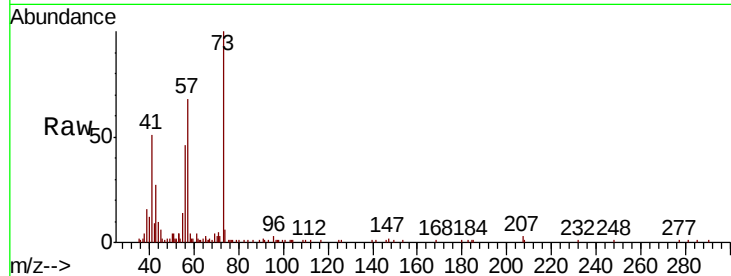




#17
Methvl tert-butvl Ether
Concen: 0.336 ug/L
RT: 3.17 min Scan# 342
Delta R.T. 0.01 min
Lab File: VX017900.D
Acq: 14 Aug 2020 15:18

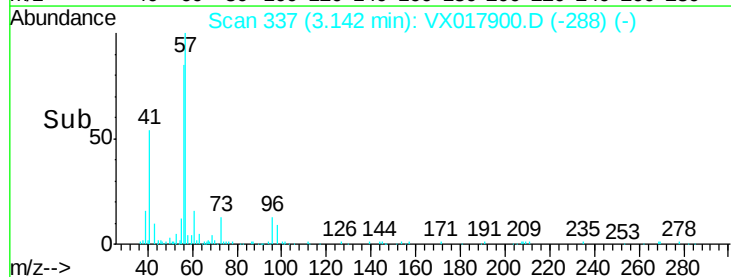
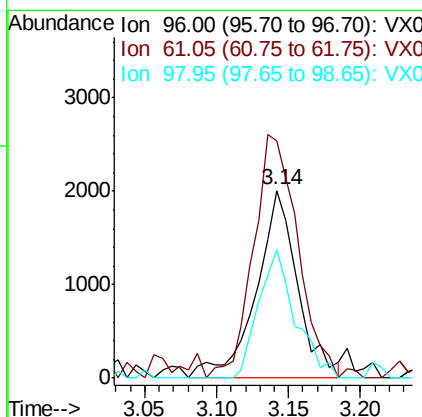
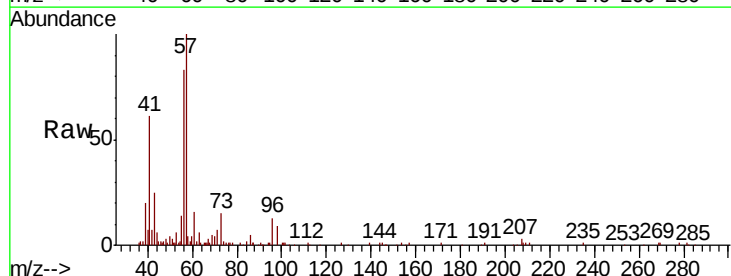
Instrument :
MSVOA_X
ClientSampleId :
BG0N2

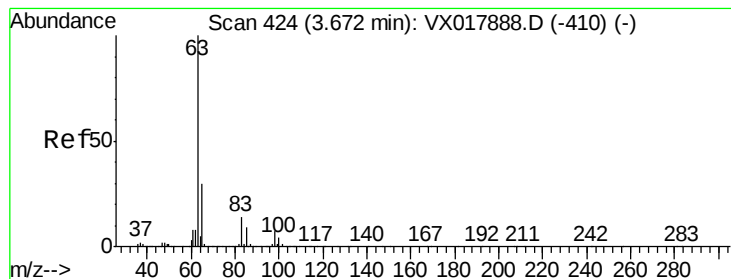
Tot Ion	Ratio	Lower	Upper
73	100		
43	64.6	17.7	26.5#
57	197.1	17.0	25.6#



#18
trans-1,2-Dichloroethene
Concen: 0.147 ug/L
RT: 3.14 min Scan# 337
Delta R.T. -0.00 min
Lab File: VX017900.D
Acq: 14 Aug 2020 15:18

Tgt Ion	Ratio	Lower	Upper
96	100		
61	126.4	98.4	182.8
98	68.8	44.9	83.5





#19

1,1-Dichloroethane

Concen: 0.827 ug/L

RT: 3.67 min Scan# 424

Delta R.T. 0.00 min

Lab File: VX017900.D

Acq: 14 Aug 2020 15:18

Instrument :

MSVOA_X

ClientSampleId :

BG0N2

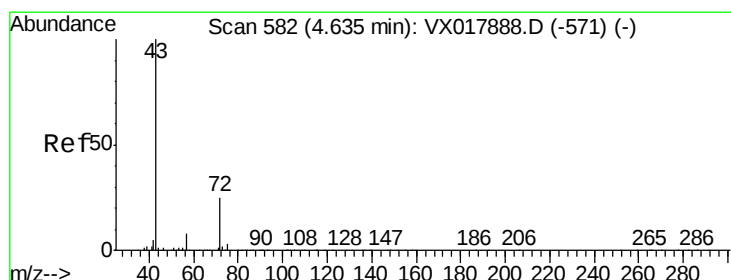
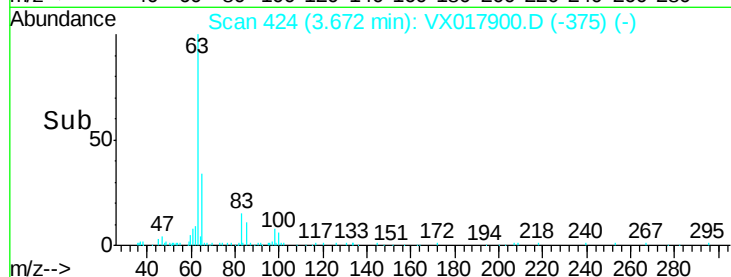
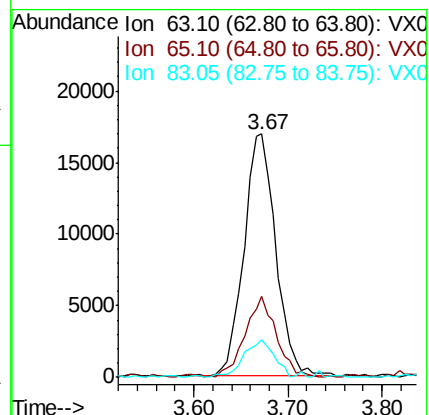
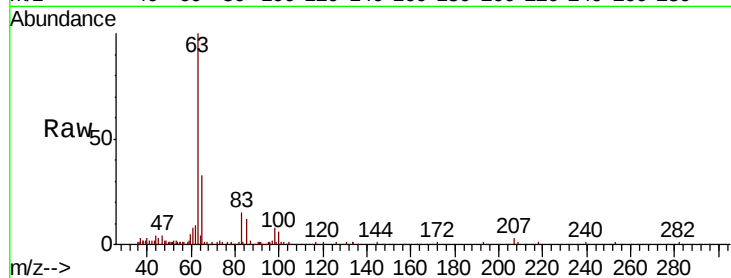
Tot Ion: 63 Resp: 40044

Ion Ratio Lower Upper

63 100

65 33.5 22.6 42.0

83 15.2 9.5 17.7



#21

2-Butanone

Concen: 4.906 ug/L

RT: 4.64 min Scan# 583

Delta R.T. 0.01 min

Lab File: VX017900.D

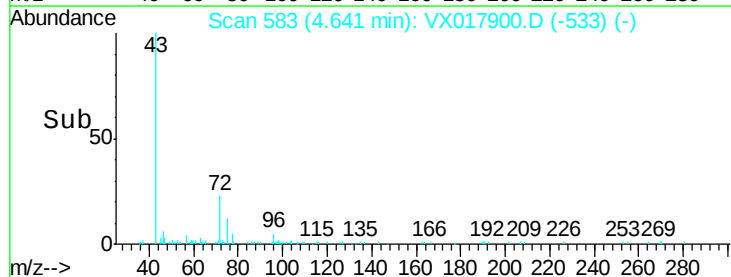
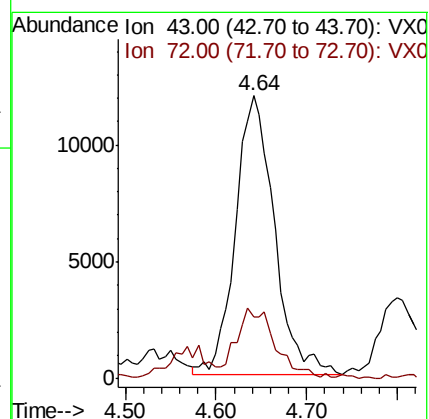
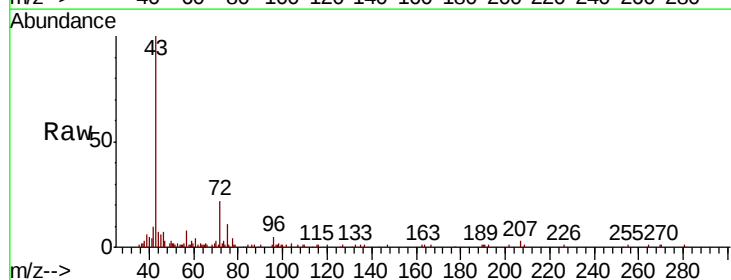
Acq: 14 Aug 2020 15:18

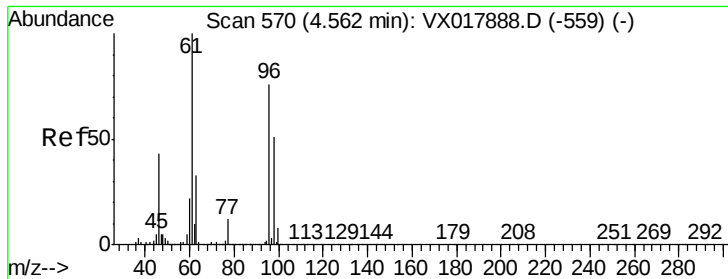
Tgt Ion: 43 Resp: 35468

Ion Ratio Lower Upper

43 100

72 24.6 13.2 39.6



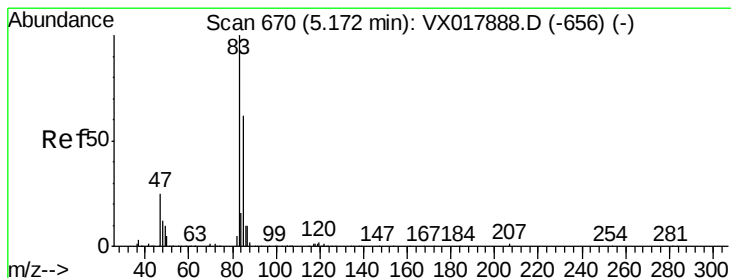
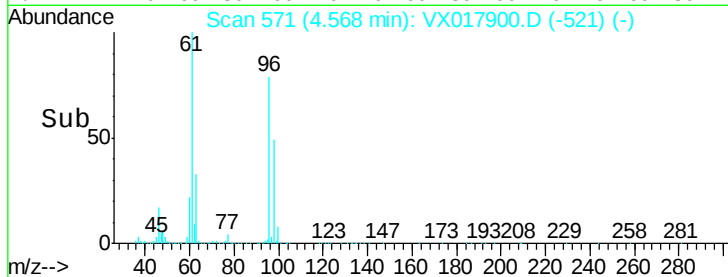
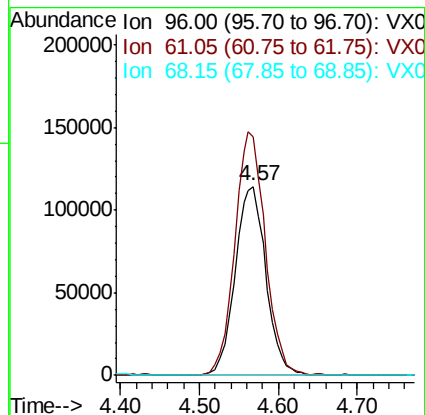
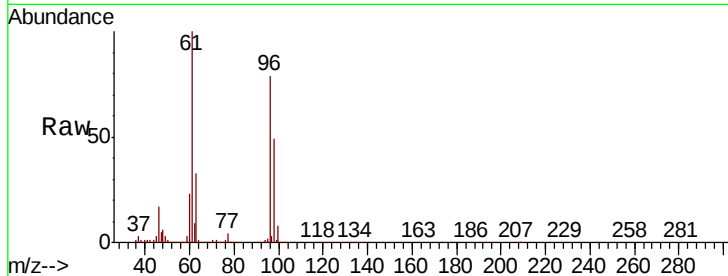


#22

cis-1,2-Dichloroethene
Concen: 10.877 ug/L
RT: 4.57 min Scan# 571
Delta R.T. 0.01 min
Lab File: VX017900.D
Acq: 14 Aug 2020 15:18

Instrument :
MSVOA_X
ClientSampleId :
BG0N2

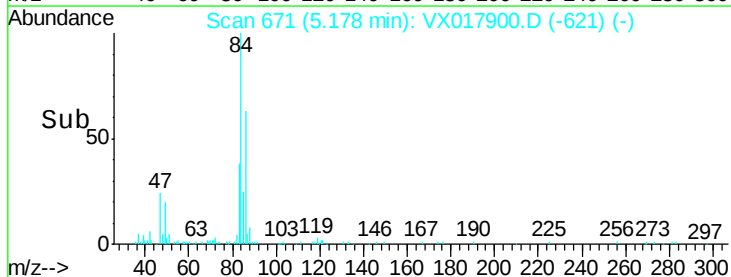
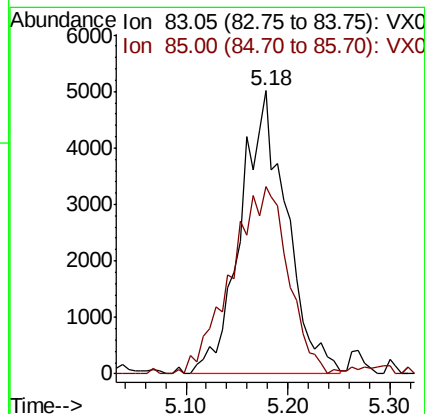
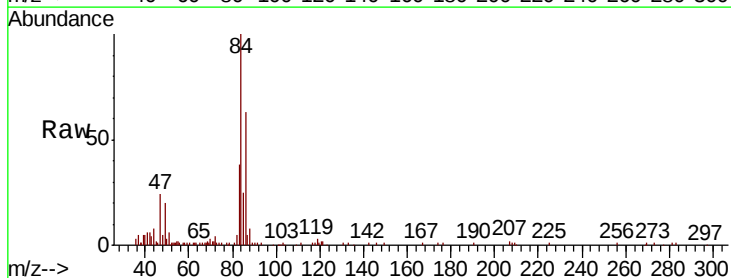
Tot Ion	96	Resp	309917
Ion Ratio	Lower	Upper	
96	100		
61	126.3	88.8	165.0
68	0.2	0.2	0.4#

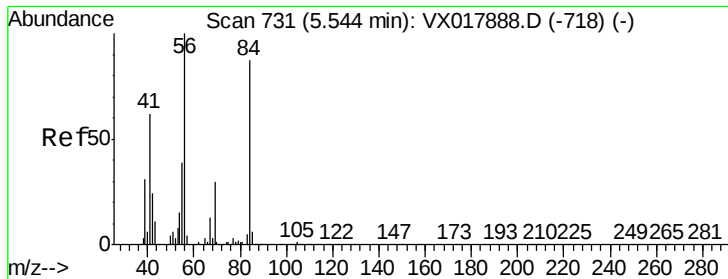


#25

Chloroform
Concen: 0.300 ug/L
RT: 5.18 min Scan# 671
Delta R.T. 0.01 min
Lab File: VX017900.D
Acq: 14 Aug 2020 15:18

Tgt Ion	83	Resp	15652
Ion Ratio	Lower	Upper	
83	100		
85	66.4	44.7	83.1

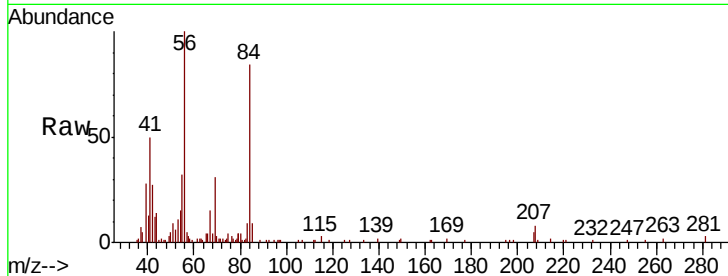




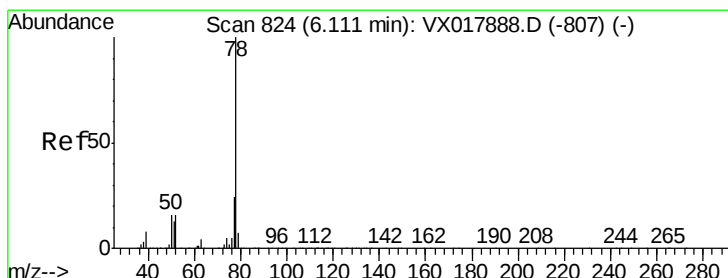
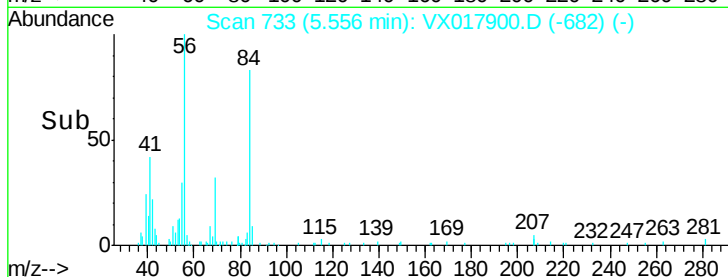
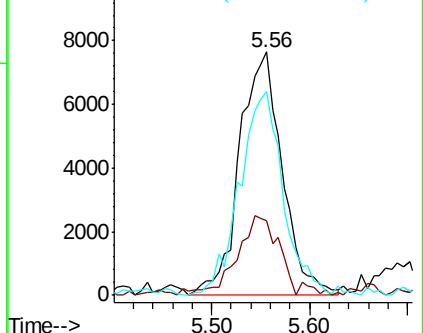
#30
Cyclohexane
Concen: 0.575 ug/L
RT: 5.56 min Scan# 733
Delta R.T. 0.01 min
Lab File: VX017900.D
Acq: 14 Aug 2020 15:18

Instrument :
MSVOA_X
ClientSampleId :
BG0N2

Tot Ion: 56 Resp: 23312
Ion Ratio Lower Upper
56 100
69 31.8 25.1 37.7
84 85.0 70.7 106.1

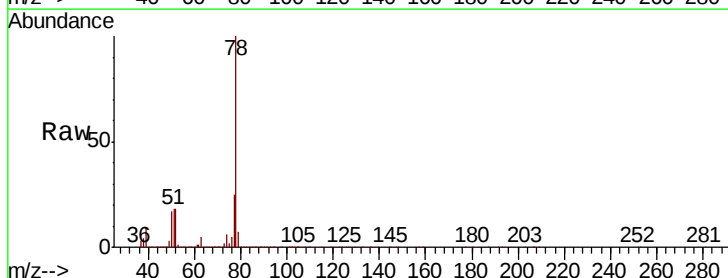


Abundance Ion 56.10 (55.80 to 56.80): VX0
Ion 69.15 (68.85 to 69.85): VX0
Ion 84.15 (83.85 to 84.85): VX0

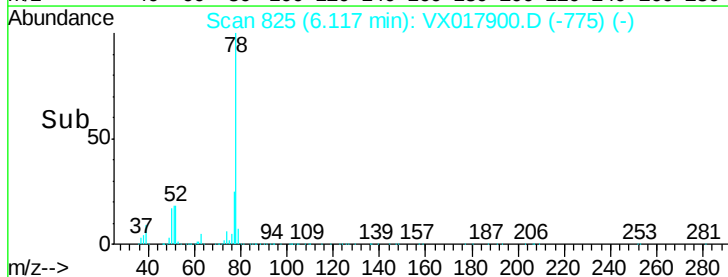
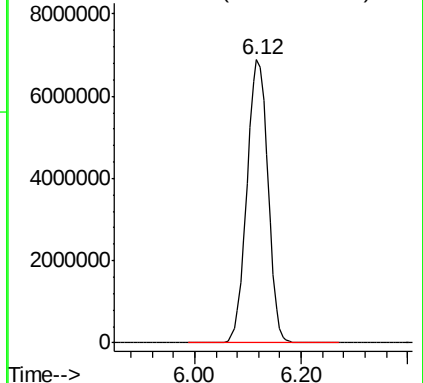


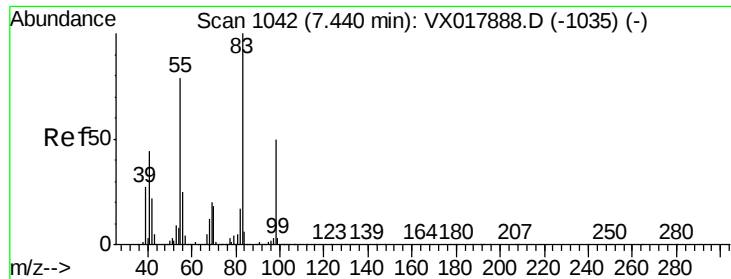
#33
Benzene
Concen: 185.285 ug/L
RT: 6.12 min Scan# 825
Delta R.T. 0.01 min
Lab File: VX017900.D
Acq: 14 Aug 2020 15:18

Tgt Ion: 78 Resp:18696789



Abundance Ion 78.10 (77.80 to 78.80): VX0

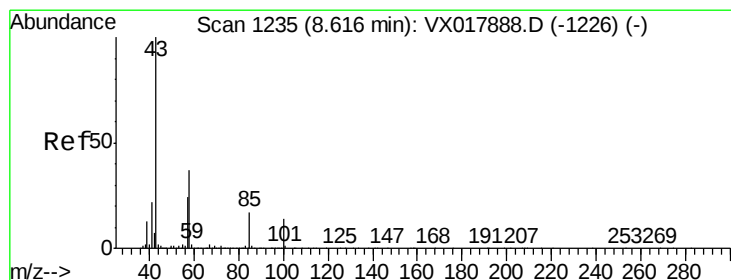
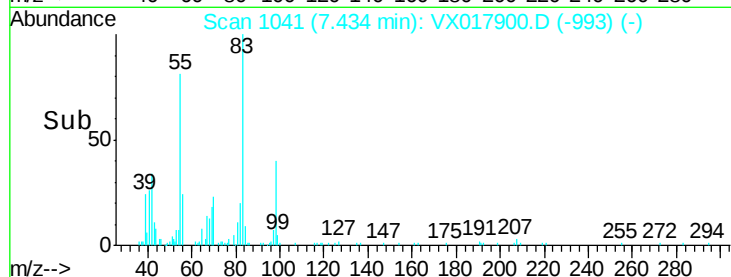
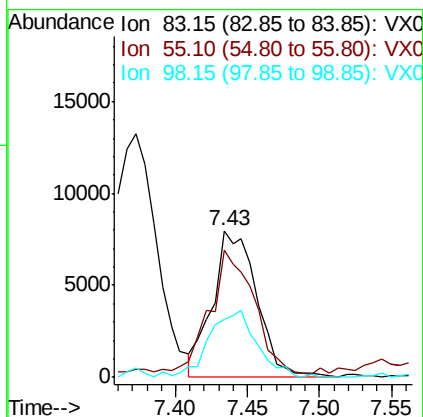
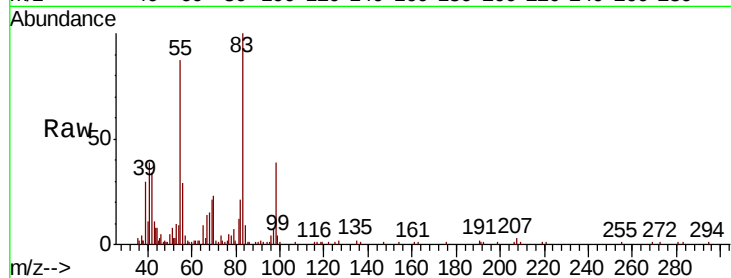




#35
Methylcyclohexane
Concen: 0.413 ug/L
RT: 7.43 min Scan# 1041
Delta R.T. -0.01 min
Lab File: VX017900.D
Acq: 14 Aug 2020 15:18

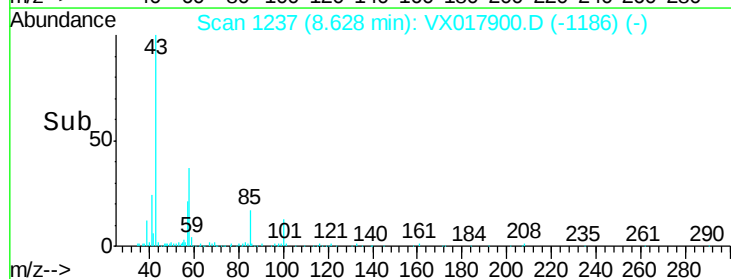
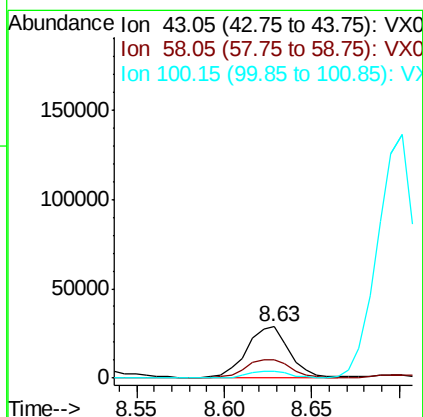
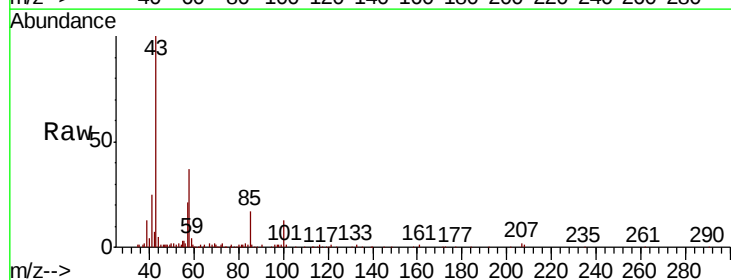
Instrument :
MSVOA_X
ClientSampled :
BG0N2

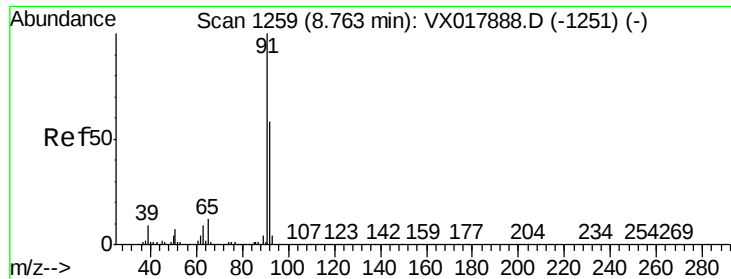
Tot Ion	83	Resp	17085
Ion Ratio	100	Lower	Upper
55	85.0	62.4	93.6
98	49.3	38.0	57.0



#40
4-Methyl-2-pentanone
Concen: 2.886 ug/L
RT: 8.63 min Scan# 1237
Delta R.T. 0.01 min
Lab File: VX017900.D
Acq: 14 Aug 2020 15:18

Tgt Ion	43	Resp	47681
Ion Ratio	100	Lower	Upper
58	40.0	31.1	46.7
100	14.7	12.2	18.4





#42

Toluene

Concen: 167.260 ug/L

RT: 8.76 min Scan# 1259

Delta R.T. 0.00 min

Lab File: VX017900.D

Acq: 14 Aug 2020 15:18

Instrument :

MSVOA_X

ClientSampleId :

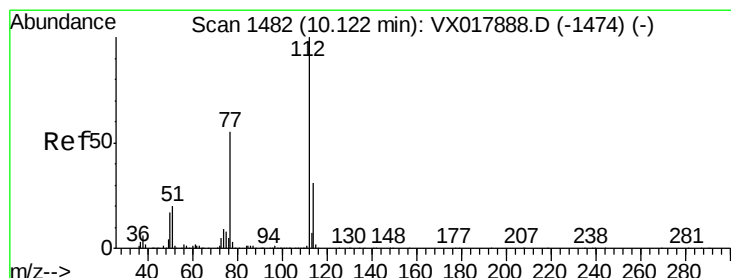
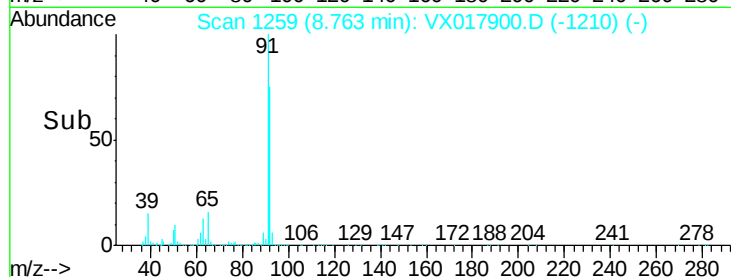
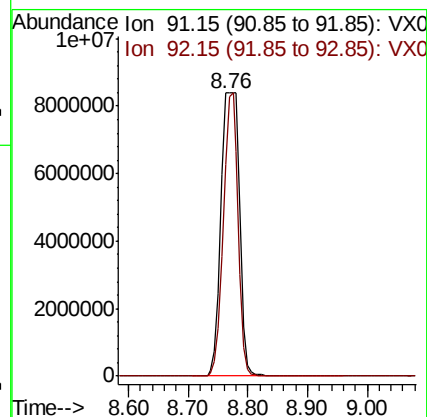
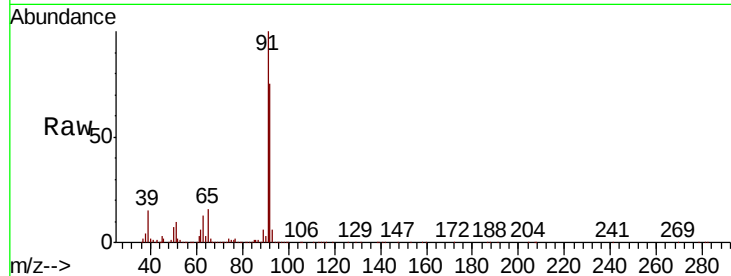
BG0N2

Tot Ion: 91 Resp:18321799

Ion Ratio Lower Upper

91 100

92 74.7 38.8 72.0#



#53

Chlorobenzene

Concen: 45.119 ug/L

RT: 10.12 min Scan# 1482

Delta R.T. -0.00 min

Lab File: VX017900.D

Acq: 14 Aug 2020 15:18

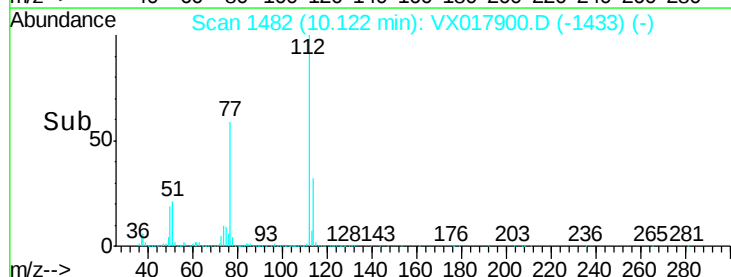
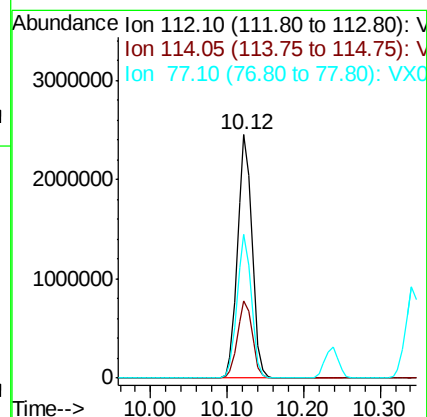
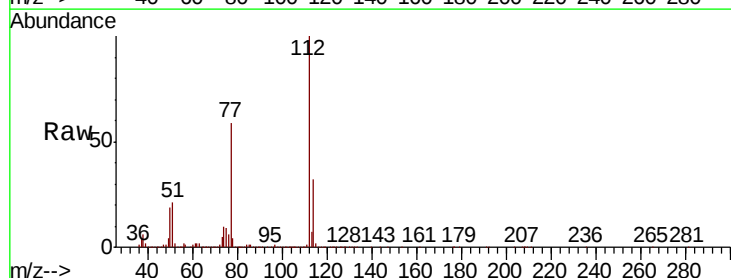
Tgt Ion:112 Resp: 3216979

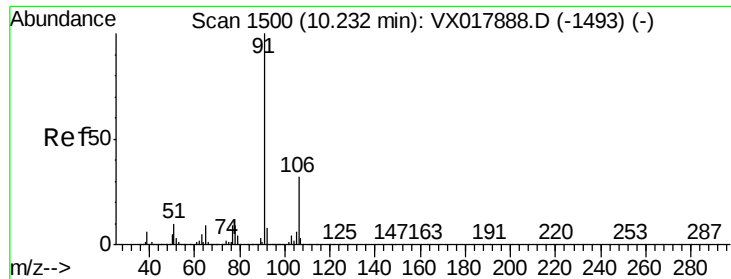
Ion Ratio Lower Upper

112 100

114 31.9 23.5 43.7

77 59.2 46.7 70.1





#54

Ethylbenzene

Concen: 38.314 ug/L

RT: 10.24 min Scan# 1501

Delta R.T. 0.01 min

Lab File: VX017900.D

Acq: 14 Aug 2020 15:18

Instrument :

MSVOA_X

ClientSampled :

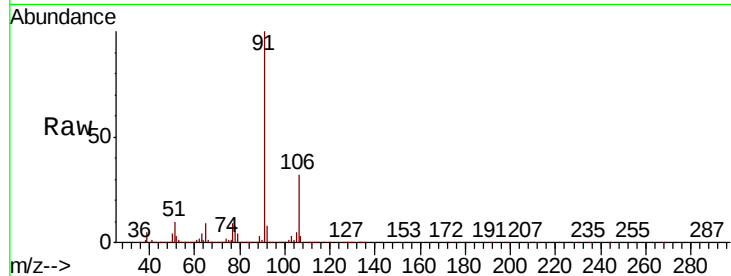
BG0N2

Tot Ion: 91 Resp: 4580239

Ion Ratio Lower Upper

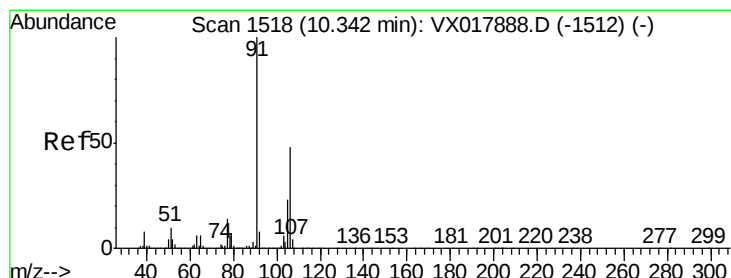
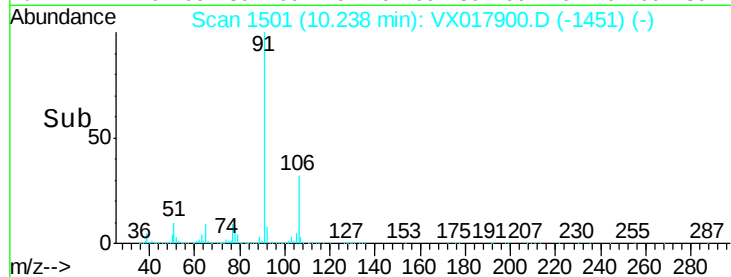
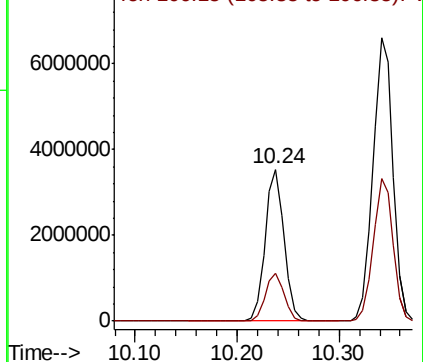
91 100

106 31.9 22.5 41.9



Abundance Ion 91.15 (90.85 to 91.85): VX0

Ion 106.15 (105.85 to 106.85): V



#55

m,p-xylene

Concen: 98.899 ug/L

RT: 10.34 min Scan# 1518

Delta R.T. 0.00 min

Lab File: VX017900.D

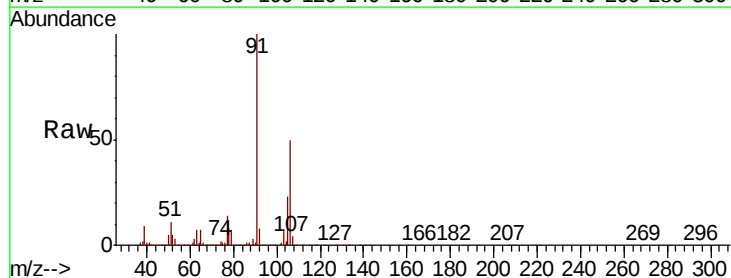
Acq: 14 Aug 2020 15:18

Tgt Ion: 106 Resp: 4514247

Ion Ratio Lower Upper

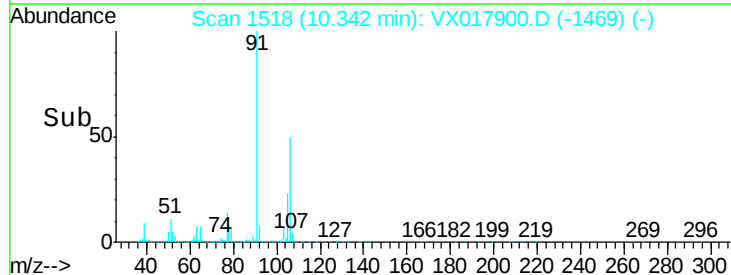
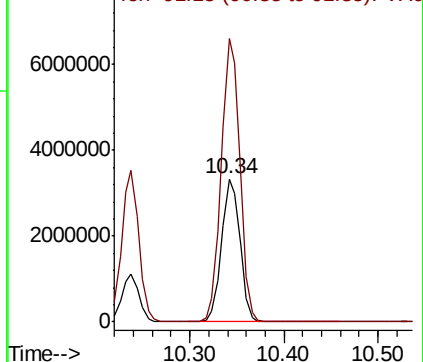
106 100

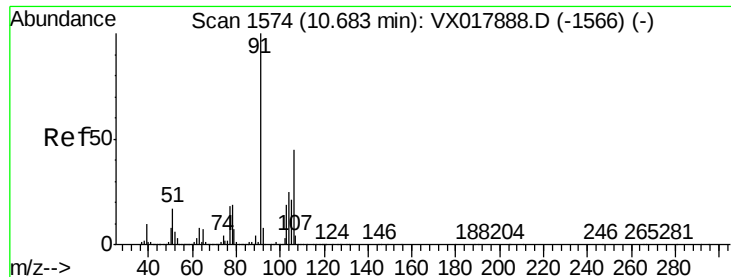
91 198.2 143.3 266.1



Abundance Ion 106.15 (105.85 to 106.85): V

Ion 91.15 (90.85 to 91.85): VX0

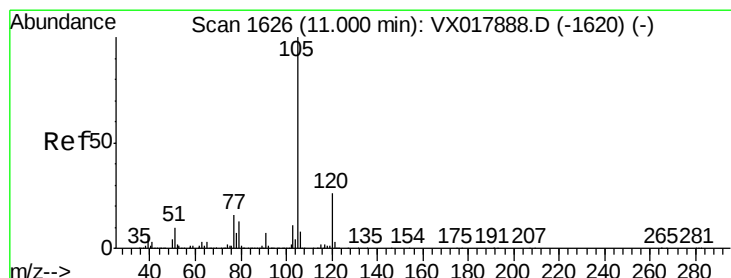
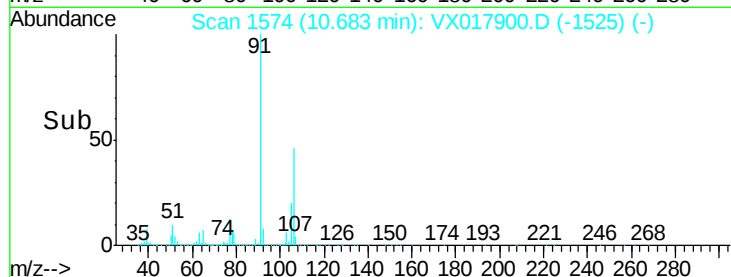
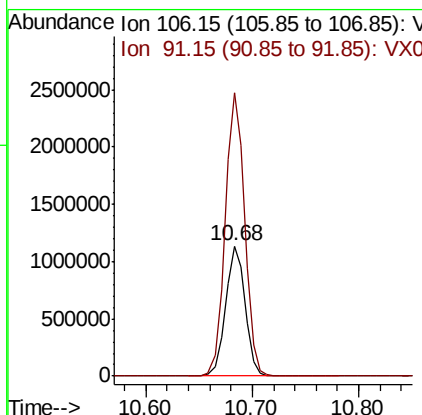
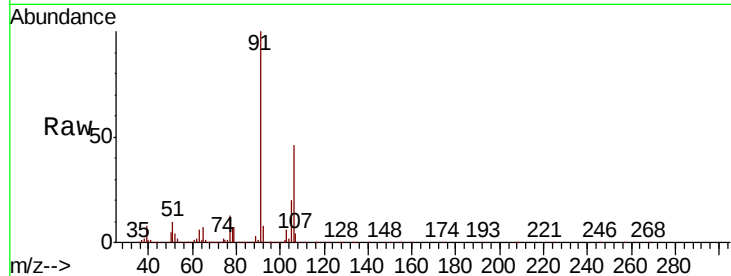




#56
o-xylene
Concen: 32.809 ug/L
RT: 10.68 min Scan# 1574
Delta R.T. 0.00 min
Lab File: VX017900.D
Acq: 14 Aug 2020 15:18

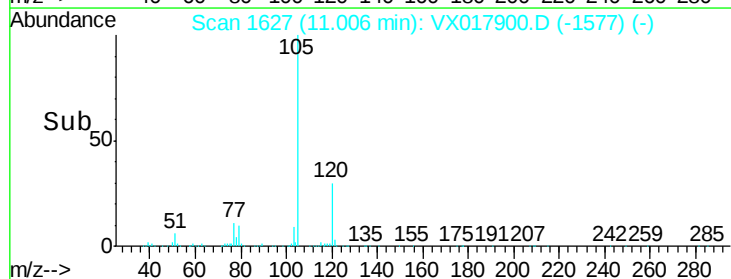
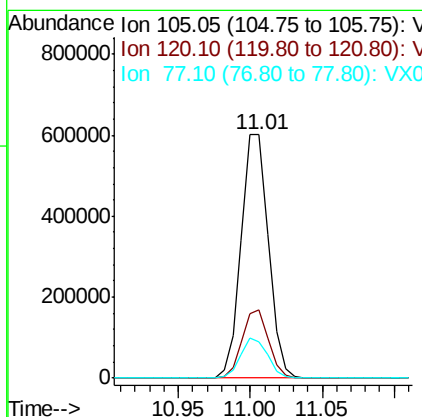
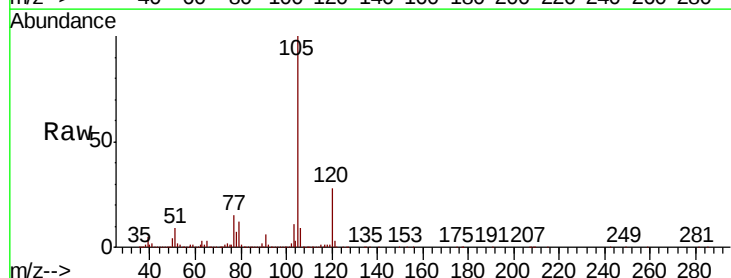
Instrument :
MSVOA_X
ClientSampled :
BG0N2

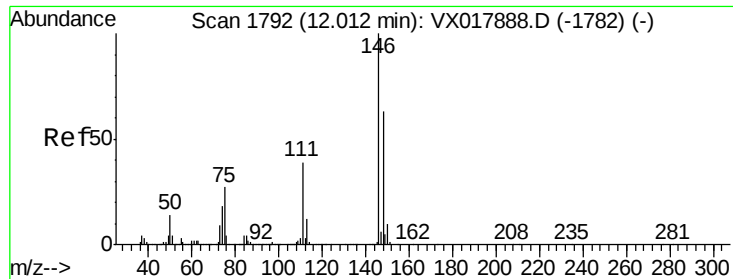
Tot Ion:106 Resp: 1451986
Ion Ratio Lower Upper
106 100
91 217.3 149.8 278.2



#58
Isopropylbenzene
Concen: 6.690 ug/L
RT: 11.01 min Scan# 1627
Delta R.T. 0.01 min
Lab File: VX017900.D
Acq: 14 Aug 2020 15:18

Tgt Ion:105 Resp: 792472
Ion Ratio Lower Upper
105 100
120 27.1 21.8 32.6
77 16.0 12.8 19.2

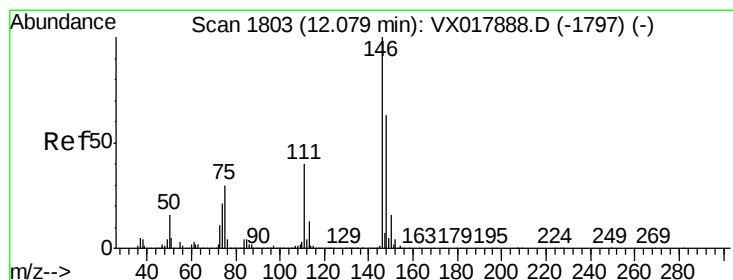
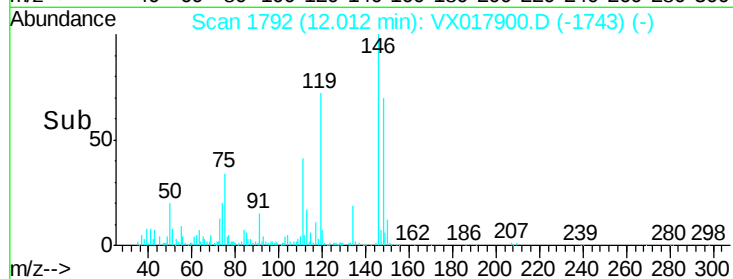
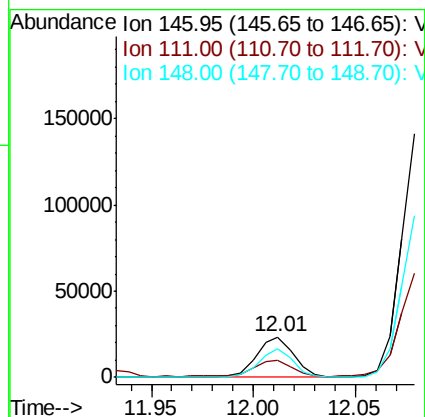
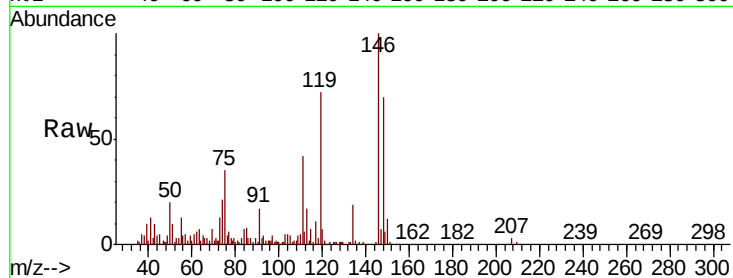




#63
 1,3-Dichlorobenzene
 Concen: 0.529 ug/L
 RT: 12.01 min Scan# 1792
 Delta R.T. 0.00 min
 Lab File: VX017900.D
 Acq: 14 Aug 2020 15:18

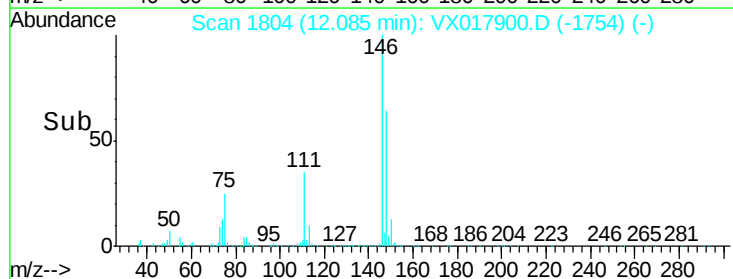
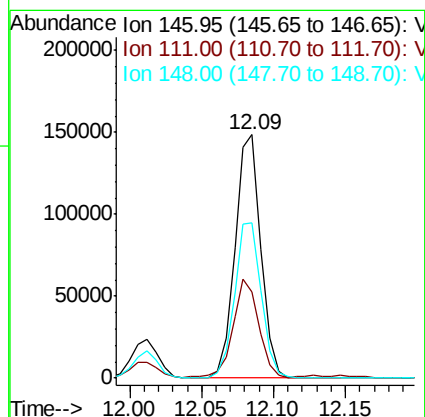
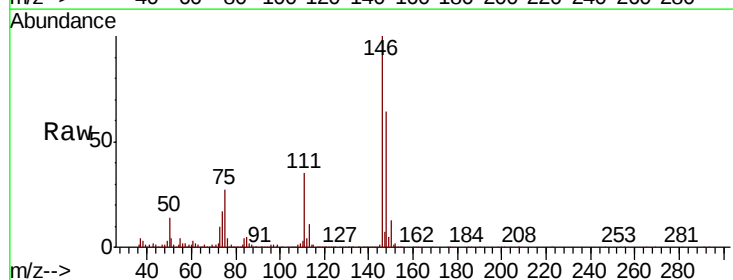
Instrument :
 MSVOA_X
 ClientSampleId :
 BG0N2

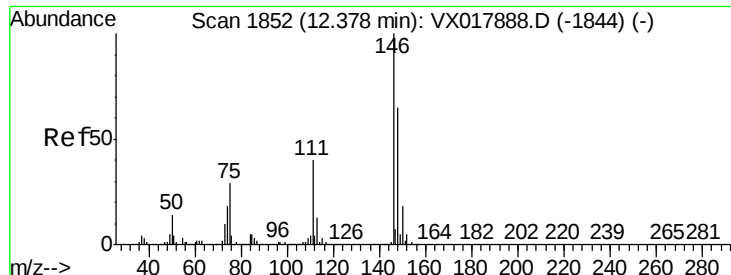
Tot Ion:146 Resp: 29995
 Ion Ratio Lower Upper
 146 100
 111 42.4 27.6 51.4
 148 70.3 43.9 81.5



#64
 1,4-Dichlorobenzene
 Concen: 3.297 ug/L
 RT: 12.09 min Scan# 1804
 Delta R.T. 0.01 min
 Lab File: VX017900.D
 Acq: 14 Aug 2020 15:18

Tgt Ion:146 Resp: 185865
 Ion Ratio Lower Upper
 146 100
 111 35.3 26.0 48.2
 148 63.6 43.2 80.2





#66
 1,2-Dichlorobenzene
 Concen: 4.094 ug/L
 RT: 12.38 min Scan# 1852
 Delta R.T. -0.00 min
 Lab File: VX017900.D
 Acq: 14 Aug 2020 15:18

Instrument :
 MSVOA_X
 ClientSampleId :
 BG0N2

Tot Ion	Ratio	Lower	Upper
146	100		
111	39.2	32.2	48.4
148	61.1	52.3	78.5

